

IN THE SPECIFICATION

Please amend the specification as follows.

Please delete the paragraph beginning on page 7, line 16 and insert the following amended paragraph:

In an alternate embodiment, illustrated in Fig. 5, a pin 10' has a stepped second elongated aperture 50 disposed at substantially a 90° angle with respect to the longitudinal axis 48' of threaded cavity 28'. In this arrangement, the elongated aperture 50 extends horizontally through the base portion 20' of the pin 10 with the end of the aperture 50, facing an archer, plugged with a cap 52 to prevent visual observation of the second end 44' of the optical fiber 40'. The cap 52 can thread into the base portion 20' or can be retained frictionally or with an adhesive. Also, the cap 52 can optionally contain a light source 54 which transmits light into the end 44' of the optical fiber 40'. In this arrangement, the light source 54 may comprise a vial or bulb containing a phosphor and tritium in a gaseous state. It is preferable that the light source 54 ~~[[by]]~~ be optically coupled, for example through a lens or transparent glue, or within 0.01 inches of the end of the optical fiber 40' to ensure the optimum transmission of light into the optical fiber 40'. Distances greater than 0.01 inches have been found to be operable and are within the scope of this invention. It is also preferable that the centerline of the light source 54 be substantially aligned with the center line of the optical fiber 40' to ensure transmission of light from the light source 54 into the optical fiber 40'.

Please delete the paragraph beginning on page 8, line 18 and insert the following amended paragraph:

Additionally, cap 52" can incorporate a lens 58 between the light source 54" and the second end 44 of the optical fiber 40'. Lens 58 can be configured to focus light from the light source 54" into the optical fiber 40'. In a preferred embodiment the lens 58 is a hard transparent material, for example a ~~saphire~~ sapphire lens, that in addition to its optical properties, serves to shield the light source 54" from intrusion by the second end 44 of optical fiber 40'. Alternately, lens 58 can be an optical connector such as a deposit of transparent silicon, acrylic, glue or other

transparent substance that transmits or focuses light from the light source **54**" into the fiber **40** and protects the light source **54**".

Please delete the paragraph beginning on page 9, line 19 and insert the following amended paragraph:

With second end **44** secured in the aperture **46**, the first end **38** is then inserted through the aperture **36** in the support portion **32** of the pin **10**. The optical fiber **40** is then trimmed at the first end **38** to an appropriate length. The optical fiber **40** is preferably trimmed to a length that allows the fiber **40** to arc substantially smoothly from the elongate aperture **46** to the aperture **36** of the support portion **32** without kinking. If a support fin **41** is provided, the length of the optical fiber **40** should allow the fiber **40** to rest on the fin **41** substantially without slack in the fiber **40**. Slack in the fiber **40** may allow the fiber **40** to shift and impact and possibly damage the light source **54**.